

## BECK'S No-Till vs. Conventional-Till Long Range Soybean Study – 2007 (Soybeans after Corn)

**Location:** E9 – E10 plots  
**Planted:** April 21, 2007  
**Harvested:** September 15, 2007  
**Rows:** Six 15" rows  
**Soil Type:** Clay Loam

**Seeding Rate:** 156,000 seeds/A.  
**Previous Crop:** Corn  
**Tillage:** No-Till: None  
 Conv.: Moldboard Plow / S-tine  
**Herbicide:** 32 oz. Roundup Original Max

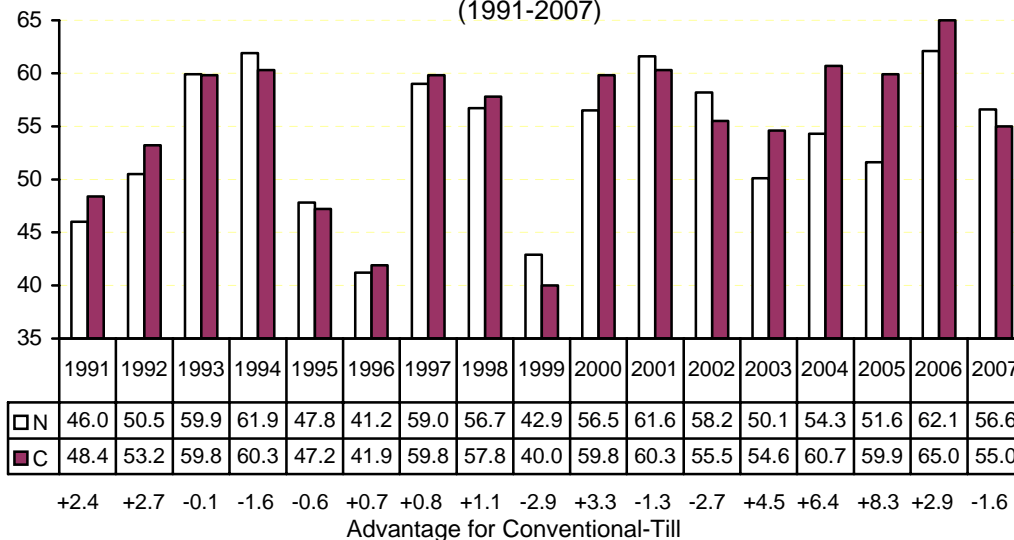
RAINFALL	
April	2.88 in.
May	1.12 in.
June	4.14 in.
July	1.85 in.
August	<u>5.68 in.</u>
Total	15.67 in.

**Purpose:** From 1991-1999, we studied how four different soybean varieties responded in emergence, plant height, podding height, disease resistance, standability, and yield using no-till and conventional-till practices. Since 2000, we expanded the study to include twice as many varieties, and we used a 15" row drill instead of the 7 ½" row drill.

Yield Rank	Brand	Plant Height (IN.)	Pod Height (IN.)	Standability 1 = Erect 5 = Flat	Bushels* Per Acre	Disadvantage for Conv.-Till (per Variety)
<b>NO-TILL STUDY</b>						
1	BECK 342NRR	32	3.0	1.4	62.9	
2	BECK 257NRR	34	4.0	1.2	57.8	
3	BECK EX 6767	30	2.0	1.2	56.8	
4	BECK 286NRR	34	4.0	1.3	56.7	
5	BECK EX 6717	32	4.0	1.3	56.0	
6	BECK 354NRR	38	4.0	1.3	55.8	
7	BECK EX 6768	35	4.0	1.3	55.7	
8	BECK EX 6693	<u>32</u>	<u>4.0</u>	<u>1.4</u>	<u>51.2</u>	
	AVERAGE	33	3.6	1.3	56.6	
<b>CONVENTIONAL-TILL STUDY</b>						
1	BECK 354NRR	36	3.0	1.3	62.3	+6.5
2	BECK 342NRR	35	3.0	1.3	61.7	-1.2
3	BECK EX 6768	33	4.0	1.3	57.9	+2.2
4	BECK EX 6693	33	4.0	1.2	57.4	+6.2
5	BECK 257NRR	35	3.0	1.3	52.4	-5.4
6	BECK EX 6767	30	2.0	1.3	50.8	-6.0
7	BECK 286NRR	32	3.0	1.3	50.1	-6.6
8	BECK EX 6717	<u>36</u>	<u>3.0</u>	<u>1.3</u>	<u>47.5</u>	<u>-8.5</u>
	AVERAGE	34	3.1	1.3	55.0	-1.6

\*Bushels per acre corrected to 13% moisture.

No-Till vs Conventional-Till Soybean Study  
Seventeen Year Comparison  
(1991-2007)



**Summary:** After seventeen years of testing no-till vs. conventional-till practices in this same location, the overall average shows a 1.3 Bu./A. difference between the two practices with conventional-till winning ten out of seventeen years.

Conv.-Till = 55.2 Bu./A.  
 No-Till = 53.9 Bu./A.

Over the years, we have observed a greater concentration of earthworms in the no-till areas, as well as improved water percolation into the soil after a heavy rain.

In 2007, no-till yields edged conventional-till for the first time in five years.

## BECK'S No-Till vs. Conventional-Till Long Range Soybean Study – 2007 (Continuous Soybeans)

<b>Location:</b>	E12 – E13 plots	<b>Previous Crop:</b>	Soybeans
<b>Planted:</b>	April 21, 2007	<b>Tillage:</b>	No-Till: None Conv.-Till: Moldboard Plow / Disc (twice)
<b>Harvested:</b>	September 15, 2007	<b>Herbicide:</b>	32 oz. Roundup Original Max
<b>Rows:</b>	Six 15" rows		
<b>Soil Type:</b>	Crosby		
<b>Seeding Rate</b>	156,000 seeds/A.		

RAINFALL	
April	2.88 in.
May	1.12 in.
June	4.14 in.
July	1.85 in.
August	<u>5.68 in.</u>
Total	15.67 in.

**Purpose:** After fifteen years of comparing no-till with conventional-till soybeans following corn, we converted this portion of our long range testing area to continuous soybeans to evaluate varietal and tillage interaction in a continuous soybean environment.

Yield Rank	Brand	Plant Height (IN.)	Pod Height (IN.)	Standability 1 = Erect 5 = Flat	Bushels* Per Acre	Advantage for No-Till (per Variety)
<b><u>NO-TILL STUDY</u></b>						
1	BECK 342NRR	31	2.0	1.3	62.0	+11.9
2	BECK 286NRR	30	2.0	1.2	54.3	+13.9
3	BECK 257NRR	28	4.0	1.2	54.2	+9.8
4	BECK 354NRR	32	4.0	1.3	53.6	+5.3
5	BECK EX 6768	29	3.0	1.2	53.4	+12.8
6	BECK EX 6717	30	4.0	1.3	49.3	+2.8
7	BECK EX 6693	32	4.0	1.3	46.1	-2.3
8	BECK EX 6767	<u>26</u>	<u>3.0</u>	<u>1.3</u>	<u>39.4</u>	<u>-1.0</u>
	AVERAGE	30	3.3	1.3	51.5	+6.6
<b><u>CONVENTIONAL-TILL STUDY</u></b>						
1	BECK 342NRR	34	3.0	1.3	50.1	
2	BECK EX 6693	32	3.0	1.3	48.4	
3	BECK 354NRR	35	4.0	1.4	48.3	
4	BECK EX 6717	30	3.0	1.3	46.5	
5	BECK 257NRR	26	2.0	1.2	44.4	
6	BECK EX 6768	32	4.0	1.3	40.6	
7	BECK EX 6767	30	2.0	1.2	40.4	
8	BECK 286NRR	<u>30</u>	<u>3.0</u>	<u>1.2</u>	<u>40.4</u>	
	AVERAGE	31	3.0	1.3	44.9	

\*Bushels per acre corrected to 13% moisture.

**Summary:** This is the fourth year of continuous soybeans and the second year that we saw a more significant yield difference between no-till and conventional-till (6.6 Bu./A. in favor of no-till in 2007, 3.7 Bu./A. in 2006). To date, we have not seen any consistent trends in varietal performance as it relates to tillage and continuous soybean practices.



“The fact that Beck’s is a family owned company that can provide choices the corporate-owned companies cannot is really special. This plus personal service from the best people in the industry makes Beck’s unbeatable. I am positive on Beck’s and the future of farming.”

Aaron Sheller  
Noblesville, IN